

Amendments to the Claims

Please amend the claims as follows:

1. (Currently Amended) A capacitor comprising:
 - a case including an opening;
 - a lid shaped to cover the opening when attached to the case;
 - a ~~capacitive element~~ flat capacitor stack including a plurality of flat metal layerspositioned in the case; and
 - a conductor electrically coupled to at least ~~a portion of the capacitive element~~; one metal layer of the plurality of flat metal layers with at least a portion of the conductor positioned between the case and the lid.
2. (Currently Amended) The capacitor of claim 1 wherein the conductor ~~is coupled to a cathode of the capacitive element~~ comprises aluminum.
3. (Currently Amended) The capacitor of claim 1 wherein the conductor comprises an integral extension of a ~~conductive layer of the capacitive element~~ at least one flat metal layer.
4. (Original) The capacitor of claim 1 wherein the case has an upper rim and the conductor is positioned between the upper rim of the case and the lid.
5. (Original) The capacitor of claim 1 wherein the conductor is electrically and mechanically attached to the case.
6. (Original) The capacitor of claim 1 further comprising a terminal wire electrically connected to the case by attaching an end of the terminal wire to the case in end-on fashion.
7. (Original) The capacitor of claim 1 wherein the case is aluminum.

8. (Original) The capacitor of claim 1 wherein the conductor comprises a strip of aluminum tab stock.

9. (Original) The capacitor of claim 1 wherein the case and the lid form an interface, the conductor positioned in the interface.

42. (Currently Amended) An implantable medical device comprising:

one or more leads for sensing electrical signals of a patient or for applying electrical energy to the patient;

a monitoring circuit for monitoring heart activity of the patient through one or more of the leads; and

a therapy circuit for delivering electrical energy through one or more of the leads to a heart of the patient, wherein the therapy circuit includes one or more capacitors; and

wherein each capacitor comprises a container having a case and a lid, a flat capacitor stack positioned in the case, the flat capacitor stack including a plurality of flat metal layers and a conductor electrically coupled to at least one metal layer of the plurality of flat metal layers and a ~~portion of the capacitor stack and~~ positioned between the case and the lid.

43.(Currently Amended) The implantable medical device of claim 42 wherein the ~~first~~ conductor is electrically and mechanically attached to the case.

44. (Original) The implantable medical device of claim 43, wherein the case, the cover, and the conductor are welded to each other using a continuous welding process.

49. (Previously Added) The capacitor of claim 9 wherein the conductor extends from the capacitive element to the interface.

50. (Currently Amended) A capacitor comprising:
- a container having a case and a cover, the case and cover forming an interface;
 - a ~~capacitive element~~ flat capacitor stack positioned in the container, ~~the flat capacitor stack including a plurality flat metal layers; and~~
 - a conductor electrically coupled to at least ~~a portion of the capacitive element, one metal layer of the plurality of flat metal layers and~~ with at least a portion of the conductor positioned between the case and the cover in the interface; ~~and~~
 - wherein the conductor is electrically and mechanically attached to the case and the case and the cover are attached to each other.
51. (Previously Added) The capacitor of claim 50 wherein the case, the cover, and the conductor are welded to each other.
52. (Previously Added) The capacitor of claim 50 wherein the case, the cover, and the conductor are welded to each other during an uninterrupted welding process.
53. (Currently Amended) The capacitor of claim 50 ~~further comprising a capacitive stack including the capacitive element positioned in the case~~ wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.
54. (Previously Added) The capacitor of claim 50 further comprising a terminal wire connected to the case in an end-on fashion.
55. (Currently Amended) A method of assembling a capacitor comprising:
- providing a conductor connected to ~~a capacitor stack~~ at least one metal layer of a plurality of flat metal layers; and
 - positioning the conductor between a first portion and a second portion of a capacitor case;
 - forming a mechanical and electrical connection between the conductor and the case.

56. (Previously Added) The method of claim 55 further comprising trimming off a portion of the conductor extending outside of the case.

57. (Previously Added) The method of claim 55 wherein forming a mechanical and electrical connection further comprises welding the conductor, the first portion, and the second portion to each other.

58. (Previously Added) The method of claim 57 wherein welding the conductor, the first portion, and the second portion comprises using an uninterrupted welding process.

59. (Newly Added) The capacitor of claim 1, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

60. (Newly Added) The capacitor of claim 1, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

61. (Newly Added) The implantable medical device of claim 42, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

62. (Newly Added) The implantable medical device of claim 42, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

63. (Newly Added) The capacitor of claim 50, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.

64. (Newly Added) The method of claim 55, wherein the at least one metal layer includes at least one cathode layer and wherein the conductor is connected to the at least one cathode layer.

AMENDMENT AND RESPONSE

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65. (Newly Added) The method of claim 55, wherein the at least one metal layer includes at least one anode layer and wherein the conductor is connected to the at least one anode layer.